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PATENT
Dkt. 1169.12-0314

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: **Kent J. Forbord**
Assignee: **SEAGATE TECHNOLOGY LLC**
Application No.: **09/104,947** Group No.: **2652**
Filed: **June 25, 1998** Examiner: **W. Klimowicz**
For: **HIGH PERFORMANCE STANDARD CONFIGURATION DISC DRIVE HAVING
SMALLER-THAN-STANDARD DISCS**

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INFORMATION DISCLOSURE STATEMENT

List of Sections Forming Part of This Information Disclosure Statement

The following sections are being submitted for this Information Disclosure Statement:

1. Preliminary Statements
2. Forms PTO/SB/08A and 08B (formerly Form PTO-1449)
3. Identification of Prior Application in Which Listed Information Was Already Cited and for Which No Copies Are Submitted or Need Be Submitted
4. Identification of Person(s) Making This Information Disclosure Statement

Section 1. Preliminary statements

Applicant submits herewith a list of patents, publications or other information, of which they are aware that they believe may be material to the examination of this application, and in respect of which, there may be a duty to disclose.

The filing of this information disclosure statement shall not be construed as a representation that a search has been made (37 C.F.R. § 1.97(g)), an admission that the information cited is, or is considered to be, material to patentability, or that no other material information exists.

The filing of this information disclosure statement shall not be construed as an admission against interest in any manner. Notice of January 9, 1992, 1135 O.G. 13-25, at 25.

OCT 20 2004

PTO/SB/08a (08-03)

Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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Substitute for Form 1449A PTO

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INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet

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of

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Application Number	09/104,947	RECEIVED
Filing Date	06/25/1998	OCT 25 2004
First Named Inventor	Kent J. Forbord	Technology Center 2000
Art Unit	2652	
Examiner Name	W. Klimowicz	
Attorney Docket Number	1160.12-0314	

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
AA	US- 5,477,401		12/19/1995	Squires, et al.	
AB	US- 5,590,001		12/31/1996	Ino, et al.	
AC	US- 5,602,700		02/11/1997	Viskochill, et al.	
AD	US- 5,870,247		02/09/1999	Schirle	
AE	US- 5,841,605		11/24/1998	Foster, et al.	
AF	US- 5,808,838		09/15/1998	Battu, et al.	
AG	US- 5,808,830		09/15/1998	Stefansky, et al.	
AH	US- 5,646,800		07/08/1997	Mihara, et al.	
AI	US- 5,189,577		02/23/1993	Nishida, et al.	
AJ	US- H1,221		08/03/1993	Best, et al.	
AK	US- 4,149,207		04/10/1979	Porter, et al.	
AL	US- 6,068,891		05/30/2000	O'Dell, et al.	
AM	US- 6,236,533		05/22/2001	Forbord, et al.	
AN	US- 3,703,713		11/21/1972	Pohm, et al.	
AO	US- 3,835,998		09/17/1974	Cobb, et al.	
AP	US- 3,931,645		01/06/1976	Dodd, et al.	
AQ	US- 4,348,705		09/07/1982	Mittal, et al.	
AR	US- 6,445,534		09/03/2002	Tsuda, et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				

Examiner Signature		Date Considered
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(Use as many sheets as necessary)

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Application Number	09/104,947	RECEIVED
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Art Unit	2652	
Examiner Name	W. Klimowicz	
Attorney Docket Number	1160.12-0314	

NON PATENT LITERATURE DOCUMENTS

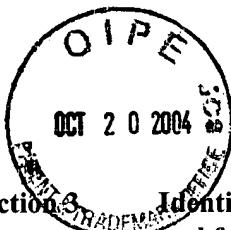
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	BA	"ST34501FC, Cheetah 4LP Family," Product Data Sheet, by Seagate Technology, Inc., 2 pages, August 1, 1997.	
	BB	"ST19101FC, Cheetah 9 Family," Product Data Sheet, by Seagate Technology, Inc. 2 pages, August 4, 1997.	
	BC	ELECTRONIC INDUSTRIES ALLIANCE, "EIA Specification," Specification for Small Form Factor 88.9 mm (3.5 in) Disk Drives - Rev 1.1, Electronic Components, Assemblies, Equipment & Supplies Association, Arlington, VA, June 5, 1995.	
	BD	C. DENIS MEE, ET AL., Magnetic Storage Handbook, 2nd ed., McGraw-Hill, New York, p. 2.32, January 2, 1996.	
	BE	DENNIS F. TOROK, ET AL., "Flow and Thermal Fields in Channels Between Corotating Disks," IEEE Transactions on Components, Hybrids and Manufacturing Technology, IEEE, Los Angeles, CA, Vol. 11 (No. 4), January 2, 1988.	
	BF	ELECTRONIC INDUSTRIES ALLIANCE, "EIA Specification," Specification for Small Form Factor 88.9 mm (3.5 in) Disk Drives - Rev 1.3, Electronic Components, Assemblies, Equipment & Supplies Association, Arlington, VA, January 2, 1999.	

Examiner Signature		Date Considered
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.

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Section 3 Identification of Prior Application in Which Listed Information Was Already Cited
and for Which No Copies Are Submitted or Need Be Submitted

This application relies, under 35 U.S.C. § 120, on the earlier filing date of prior application S.N. 09/104,947, filed on June 25, 1998.

This application also relies, under 35 U.S.C. § 120, on the earlier filing date of prior provisional applications S.N. 60/057,955, filed on September 5, 1997 and S.N. 60/063,322 filed on October 27, 1997.

The following references were submitted to, and/or cited by, the Office in the prior applications and, therefore, are not required to be provided in this application:

US Patent No. 5,477,401
5,590,001
5,602,700
5,870,247
5,841,605
5,808,838
5,808,830
5,646,800
5,189,577
H1,221
4,149,207
6,068,891
6,236,533
3,703,713
3,835,998
3,931,645
4,348,705
6,445,534
5,835,310
6,490,123

US Pat. Appln. 2002/0093758A1
2002/0093759A1
2002/0093760A1

Other "ST34501FC, Cheetah 4LP Family"
 "ST19101FC, Cheetah 9 Family"
 Electronic Industries Alliance (Rev 1.1) 06-05-1995
 Magnetic Storage Handbook
 "Flow and Thermal Fields in Channels Between Corotating Disks"
 Electronic Industries Alliance (Rev 1.3) 01-02-1999

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Section 4. Identification of Person Making This Information Disclosure Statement

The person making this certification is:

a. the practitioner who signs below on the basis of the information supplied by the inventor(s) and in the practitioner's file.

Date: 10/20/04



Randall K. McCarthy, Registration No. 39,297
Mitchell K. McCarthy, Registration No. 38,794
Fellers, Snider, Blankenship, Bailey & Tippens, P.C.
Bank One Tower
100 North Broadway, Suite 1700
Oklahoma City, OK 73102-8820
Telephone: (405) 232-0621
Fax: (405) 232-9659
Customer No. 33900